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Amendments to the Claims:

Please cancel claims 21-23. Please amend the claims as indicated.

Listing of Claims:

1. (Currently Amended) An exhaust system for a diesel propulsion engine comprising:

a discontinuously regenerating exhaust gas purification system including a catalytic converter unit that burns diesel fuel catalytically wherein the discontinuously regenerating exhaust gas purification system periodically regenerates a filter;

a fuel evaporator unit connected upstream from the catalytic converter unit and including an electrical heating element, wherein the fuel evaporator unit is adapted for connection to a vehicle fuel tank by a fuel line and installed with spatial separation from an exhaust gas carrying component and wherein the fuel evaporator unit is only used to change fuel from a liquid state to a vapor state; and

a fuel vapor feeding channel upstream of the catalytic converter unit wherein the fuel vapor feeding channel discharges into the exhaust gas carrying component, and extends between the fuel evaporator unit and the exhaust gas carrying component.

2. (Previously Presented) The exhaust system according to Claim 1, wherein the filter comprises a discontinuously regenerating particulate filter, and including an oxidizing converter unit connected upstream of the discontinuously regenerating particulate filter wherein the oxidizing converter unit heats exhaust gases flowing toward the discontinuously regenerating particulate filter through catalytic combustion of fuel vapors produced by the fuel evaporator unit.

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3. (Previously Presented) The exhaust system according to Claim 1 wherein the discontinuously regenerating exhaust gas purification system further includes a discontinuously regenerating NO_x accumulating converter.
4. (Previously Presented) The exhaust system according to claim 1 wherein the fuel vapor feeding channel discharges into a cross-sectional restriction of the exhaust gas carrying component.
5. (Previously Presented) The exhaust system according to claim 1 further including a jacket tube, and wherein the fuel evaporator unit comprises an upright mounted glow plug which is encompassed by the jacket tube to define an annular gap, and the fuel line and the fuel vapor feeding channel discharge into the annular gap.

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6. (Currently Amended) The exhaust system according to Claim 5 An exhaust system for a diesel propulsion engine comprising:

a discontinuously regenerating exhaust gas purification system including a catalytic converter unit that burns diesel fuel catalytically wherein the discontinuously regenerating exhaust gas purification system periodically regenerates a filter;

a fuel evaporator unit connected upstream from the catalytic converter unit and including an electrical heating element, wherein the fuel evaporator unit is adapted for connection to a vehicle fuel tank by a fuel line and installed with spatial separation from an exhaust gas carrying component;

a fuel vapor feeding channel upstream of the catalytic converter unit wherein the fuel vapor feeding channel discharges into the exhaust gas carrying component, and extends between the fuel evaporator unit and the exhaust gas carrying component; and

a jacket tube wherein the fuel evaporator unit comprises an upright mounted glow plug which is encompassed by the jacket tube to define an annular gap, and the fuel line and the fuel vapor feeding channel discharge into the annular gap wherein an inside width of the annular gap is between 0.6 mm and 2.0 mm.

7. (Currently Amended) ~~The exhaust system according to Claim 5 further comprising~~
An exhaust system for a diesel propulsion engine comprising:

a discontinuously regenerating exhaust gas purification system including a catalytic converter unit that burns diesel fuel catalytically wherein the discontinuously regenerating exhaust gas purification system periodically regenerates a filter;

a fuel evaporator unit connected upstream from the catalytic converter unit and including an electrical heating element, wherein the fuel evaporator unit is adapted for connection to a vehicle fuel tank by a fuel line and installed with spatial separation from an exhaust gas carrying component; and

a fuel vapor feeding channel upstream of the catalytic converter unit wherein the fuel vapor feeding channel discharges into the exhaust gas carrying component, and extends between the fuel evaporator unit and the exhaust gas carrying component;

a jacket tube wherein the fuel evaporator unit comprises an upright mounted glow plug which is encompassed by the jacket tube to define an annular gap, and the fuel line and the fuel vapor feeding channel discharge into the annular gap; and

a spiral guide element located in the annular gap.

8. (Previously Presented) ~~The exhaust system according to claim 5 wherein an end of the fuel vapor feeding channel oriented toward the fuel evaporator unit extends into the jacket tube.~~

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9. (Previously Presented) The exhaust system according to claim 5 further including an insulator, and wherein the jacket tube is encompassed by the insulator.

10. (Previously Presented) The exhaust system according to claim 5 wherein the fuel evaporator unit further comprises a preheating stage connected upstream of the fuel evaporator to evaporate the fuel.

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11. (Currently Amended) ~~The exhaust system according to Claim 10. An exhaust system for a diesel propulsion engine comprising:~~

a discontinuously regenerating exhaust gas purification system including a catalytic converter unit that burns diesel fuel catalytically wherein the discontinuously regenerating exhaust gas purification system periodically regenerates a filter;

a fuel evaporator unit connected upstream from the catalytic converter unit and including an electrical heating element, wherein the fuel evaporator unit is adapted for connection to a vehicle fuel tank by a fuel line and installed with spatial separation from an exhaust gas carrying component and wherein the fuel evaporator unit further comprises a preheating stage connected upstream of the fuel evaporator unit to evaporate the fuel and wherein the preheating stage comprises an intermediate accumulator with a heating device;

a fuel vapor feeding channel upstream of the catalytic converter unit wherein the fuel vapor feeding channel discharges into the exhaust gas carrying component, and extends between the fuel evaporator unit and the exhaust gas carrying component; and

a jacket tube wherein the fuel evaporator unit comprises an upright mounted glow plug which is encompassed by the jacket tube to define an annular gap, and the fuel line and the fuel vapor feeding channel discharge into the annular gap.

12. (Currently Amended) ~~The exhaust system according to Claim 11 wherein the preheating stage comprises a heat exchanger exposed to an exhaust gas stream.~~

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13. (Previously Presented) The exhaust system according to claim 1 wherein the fuel evaporator unit comprises a pressure vessel having a heating device, and two valves control flow through the fuel evaporator unit.

14. (Currently Amended) ~~The exhaust system according to Claim 13~~ An exhaust system for a diesel propulsion engine comprising:

a discontinuously regenerating exhaust gas purification system including a catalytic converter unit that burns diesel fuel catalytically wherein the discontinuously regenerating exhaust gas purification system periodically regenerates a filter;

a fuel evaporator unit connected upstream from the catalytic converter unit and including an electrical heating element, wherein the fuel evaporator unit is adapted for connection to a vehicle fuel tank by a fuel line and installed with spatial separation from an exhaust gas carrying component and wherein the fuel evaporator unit comprises a pressure vessel having a heating device, and two valves control flow through the fuel evaporator unit, and wherein the fuel evaporator unit comprises a secondary heater connected downstream of the fuel evaporator unit for fuel vapors discharged from the pressure vessel; and

a fuel vapor feeding channel upstream of the catalytic converter unit wherein the fuel vapor feeding channel discharges into the exhaust gas carrying component, and extends between the fuel evaporator unit and the exhaust gas carrying component.

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15. (Previously Presented) The exhaust system according to claim 1 wherein a ratio of a cross-section of the fuel vapor feeding channel to a cross-section of the exhaust gas carrying component is between 0.006 and 0.015 near an outlet to the fuel vapor feeding channel.
16. (Previously Presented) The exhaust system according to Claim 2 wherein the oxidizing converter unit and the discontinuously regenerating particulate filter are installed in separate housings.
17. (Previously Presented) The exhaust system according to Claim 2 wherein the oxidizing converter unit and the discontinuously regenerating particulate filter are installed in a common housing.
18. (Previously Presented) The exhaust system according to Claim 17 wherein the oxidizing converter unit is represented by a catalytically coated area of the discontinuously regenerating particulate filter.

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19. (Previously Presented) The exhaust system according to Claim 2 further including a controller and a temperature sensor located between the oxidizing converter unit and the discontinuously regenerating particulate filter and connected to the controller which in a regeneration mode controls a delivery rate of a fuel pump that feeds the fuel evaporator unit depending on an exhaust gas temperature measured upstream of the discontinuously regenerating particulate filter.

20. (Currently Amended) The exhaust system according to claim 4. An exhaust system for a diesel propulsion engine comprising:

a discontinuously regenerating exhaust gas purification system including a catalytic converter unit that burns diesel fuel catalytically wherein the discontinuously regenerating exhaust gas purification system periodically regenerates a filter;

a fuel evaporator unit connected upstream from the catalytic converter unit and including an electrical heating element, wherein the fuel evaporator unit is adapted for connection to a vehicle fuel tank by a fuel line and installed with spatial separation from an exhaust gas carrying component; and

a fuel vapor feeding channel upstream of the catalytic converter unit wherein the fuel vapor feeding channel discharges into the exhaust gas carrying component, and extends between the fuel evaporator unit and the exhaust gas carrying component, the fuel vapor feeding channel discharging into a cross-sectional restriction of the exhaust gas carrying component, wherein the cross-sectional restriction is a venturi nozzle.

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21-23. (Cancelled)